03500.017564 PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: Unassigned
MOTOKAZU KOBAYASHI ET AL.	)	
	:	Group Art Unit: Unassigned
Application No.: 10/662,472	)	
	:	
Filed: September 16, 2003	)	
	:	
For: PIEZOELECTRIC ELEMENT, INK JET RECORDING HEAD AND METHOD FOR MANUFACTURING PIEZOELECTRIC ELEMENT	)	
	:	November 14, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. A copy of each of the listed documents is enclosed.

The Examiner's attention is also directed to the following U.S. Application, a copy of which is enclosed:

Application Number	Inventor(s)	Filing Date	Group Art Unit	Status
09/584,485	Yoshiyuki Imanaka Sadayuki Sugama Ichiro Saito Hiroyuki Ishinaga Akihiro Yamanaka Masahiko Kubota	June 1, 2000	2853	Allowed

The article entitled "Lead Zirconate Titanate Films by Rapid Thermal Processing" is discussed at page 1 of the specification and may be relevant for the reasons discussed therein.

Japanese Patent Application Laid-Open Nos. 9-92897, 10-139594, 10-290035 are discussed at page 3 of the specification and may be relevant for the reasons discussed therein.

Japanese Patent Application Laid-Open No. 2000-79689 is discussed at pages 3 and 4 of the specification and may be relevant for the reasons discussed therein.

The Japanese dictionary of science Rikagaku Jiten is cited at page 11 of the specification and may be relevant for the reasons discussed therein. The English translation of the pertinent portions of the entries for "perovskite" and "perovskite structure" is as follows:

> An ideal chemical composition is $CaTiO_3$ and in some cases it includes a rare earth element such as Ce^{3+} and Nb^{5+}. It is a typical example of perovskite structure and has an ideal structure of a cubic system at high temperature.

EP 0 969 530 is a European counterpart to Japanese Patent Application Laid-Open No. 2000-79689.

Abstracts for Japanese Patent Application Laid-Open Nos. 9-92897, 10-139594, 10-290035 and 2000-79689, obtained from a commercial database, are enclosed for the Examiner's convenience.

FORMAL MATTERS

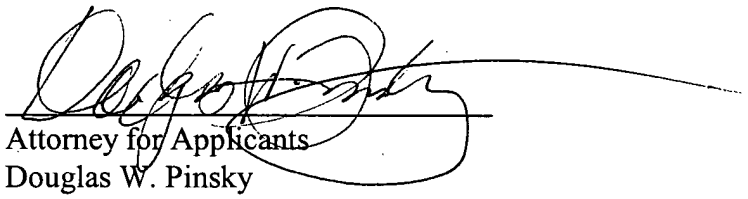
In accordance with 37 C.F.R. § 1.97(b), since this Information Disclosure Statement is being filed within three months of the filing date of the subject application, neither a statement under 37 C.F.R. § 1.97(e) nor payment of a fee is required for consideration of this Information Disclosure Statement.

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that an initialed copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,



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FORM PTO 1449 (*modified*)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

November 14, 2003

ATTY DOCKET NO.	APPLICATION NO.
03500.017564	10/662,472

APPLICANT
MOTOKAZU KOBAYASHI ET AL.

FILING DATE	GROUP
September 16, 2003	**Unassigned**

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,315,853 B1	**11/2001**	**Kubota et al.**			
		6,402,302 B1	**06/2002**	**Ozaki et al.**			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		JP 9-92897	**04/1997**	**Japan**			**Abstract**
		JP 10-139594	**05/1998**	**Japan**			**Abstract**
		JP 10-290035	**10/1998**	**Japan**			**Abstract**
		EP 0 969 530	**01/2000**	**EPO**			**In English**
		JP 2000-79689	**03/2000**	**Japan**			**Abstract***

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

		Kumar, C., et al., "Lead Zirconate Titanate Films by Rapid Thermal Processing," Applied Physics Letters, Vol. 58, No. 11, March 18, 1991, pgs. 1161-1163.
		Rikagaku Jiten (Dictionary of Science), 5th Ed. (Iwanami Shoten Co., publisher), 1998, p. 1268.

***Note: English-language counterpart EP 0 969 530 also submitted herewith.**

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.

DWP/tmc